



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

October 2, 1979

See Addressees:

Attached is a rough, rough draft of a report on the Valley of the Drums. It represents a rather crude attempt to assemble, assimiliate, sort out and interpret a mass of analytical information that has been generated for the Valley episode, an event that you all have had some association.

I humbly solicit your comments; good and bad, in order that the final report will be representative of the truth as you see it.

Since there seems to be a sense of great urgency surrounding this report (being that I have received at least two recent inquiries regarding it), I implore you to give it your immediate attention. Feel free to mark up your copy and return it or call in your comments to me directly, which ever suits you best. However, I would like your feedback by October 19th. My telephone number is: (201) 321-6743 or (FTS) 340-6743.

Have at it best regards,

Royal J. Nadeau, Ph.D. Environmental Response Team

Addressees:

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Mr. Robert Logan, Div. of Water Quality, Kentucky

Mr. Al Smith, USEPA

Mr. John Gilbert, USEPA-ERT

Dr. Waynon Johnson, USF&W

P.S. Please excuse my lateness. It's been an extremely hectic spring and summer.



U.S. EPA REGION IV

SDMS

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VALLEY OF THE DRUMS

Shepherdsville, Kentucky



Spring 1979



DAT

Prepared by:

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Environmental Response Team
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ACKNOWLEDGEMENT

This report would not be possible without the cooperative efforts of numerous individuals associated with Region IV's Emergency Response Branch, Water Surveillance Branch, Technical Support Branch and Ecology Branch plus the Environmental Response Team and the Kentucky Division of Water Resources.

A.L. TAYLOR DUMP SITE (VALLEY OF THE DRUMS)

INTRODUCTION

On March 2, 1979, Region IV activated the Revolving Fund to clean up a spill from the Valley of the Drums in Bullit County, Kentucky. Jack Stonebreaker assumed the role of OSC and directed the contractor, OH Materials, EPA's Environmental Response Team, Coast Guard's Gulf and Pacific Strike Team, the Coast Guard's PIA Team, U.S. Fish and Wildlife and the State of Kentucky in a coordinated effort to contain and mitigate the environmental emergency at the Valley of the Drums.

The dump was opened around 1967 in the dump was closed and Mr. Taylor died in early 1978. During the operation of the facility, Mr. Taylor never obtained a permit.

Records obtained from industrial firms contrast from records obtained from the Taylor Company. Taylor's records are incomplete especially regarding a period of heavy activity during 1975 and 1976.

Industrial records indicate a total of 27,389 drums were delivered to the site while Taylor's records show only 7,339 being delivered to the site. Industries that have provided the state with records are: Reliance Universal, Inc. (13,301); Ford Motor Company (10,105); George W. Whitesides Company (3,082); Kurfees Coating (489); Tremco (200); C&C Supply (98); Guardsman Chemical (67); Louisville Varnish (33); and Randal VeVay (14).

Assuming the total of 27,389 drums and the above ground count of 16,383 drums, the remaining 11,006 drums would approximate the number of buried drums on site. This number, however, is based on records from selected industries and would not indicate drums from other sources.

ENVIRONMENTAL INVESTIGATION

A series of field sampling efforts were conducted by EPA and State of Kentucky Water Resources personnel to document the occurrence and extent of contamination in the surface water and soils on the site proper and adjacent receiving waters. The initial sampling was performed to determine oil and grease, the presence of which in the adjacent waters was justification for the use of 311(k) funds for mitigation and cleanup.

EPA/REGION IV AND ERT SAMPLING EFFORTS

The first environmental samples in connection with the A.L. Taylor

Site (Valley of the Drums) was collected by Region IV Surveillance and

Analysis personnel on February 13, 1979 (). On this date, water

and sediment samples were collected from wilson Creek at sites downstream from

Valley. This was part of a larger sampling effort that was being performed in

connection with other hazardous waste disposal sites in and around the

Louisville area that were being investigated.

In the latter part of February (February 22), site specific sampling was performed on the A.L. Taylor site to delineate the types and quantities of hazardous materials present. At this time, water samples were collected from standing water pools and melt water running off the properties of Wilson Creek. Also, sediment samples were collected at specific sites to determine the presence of contamination in the surface soils.

In early March, during the early stages of cleanup, water and soil samples were collected by John Gilbert, EPA-ERT and Environmental Consultants, Inc., under contract to EPA. These samples were collected from specific areas within the A.L. Taylor properties and downstream in Wilson Creek.

On March 7th, an in-situ examination of Wilson Creek, the remote stream immediately adjacent to the Valley, were conducted by Don Schultz, Region IV Biologist and Royal J. Nadeau, ERT Biologist at the request of the OSC to perform an assessment of the biological and ecological state of the

stream (see attachment map in Appendix).

This assessment was performed by sampling and examining the benthic infauna of Wilson Creek. A small dip net (approximately 20 mm in diameter flattened on one side) was used to sample the infaunal community at various locations in the upper reaches of Wilson Creek. Most of the stations were downstream from the Valley of the Drums, with one being on a tributary (Station 2 Control).

Station 1 is located just below the bridge crossing the National Turnpike. The stream bottom is comprised of bricks, concrete chunks and other
types of solid rubble that is often times prevalent in streams that are
associated with human population centers. We sampled the bottom by holding
the dip net downstream, as we overturned some of the in-stream objects.

Also, we probed the vegetation overhanging in the stream to dislodge any
epifauna present.

Station 2, which we considered as a control station, was located on an unnamed tributary to Wilson Creek, which drains the eaterly slope of the South Park Hills, which are part of the County park systems. We sampled a small segment of the stream just upstream from the bridge on South Park Road and Hornback Road.

Station 3 was located on Wilson Creek approximately three miles downstream from the Valley. The creek had eroded a bed 6-8 feet below the level of the flood plain. The bed was composed of construction material rubble and alluvial clay deposits that was riddled with crayfish burrows.

Station 4 was located downstream from the Valley at the boundry of the county forest. Just upstream from this station, was a small dam that had been installed as part of the instream treatment system. Water was being pumped from behind the dam into a fountain manifold that had been installed

upland. The stream water was aerated to release volatile organics then allowed to trickle over the ground surface back to Wilson Creek.

Station 5 was located on a small stream that originated in the golf course located upland from the Valley. The stream was approximately two feet wide and .25 feet deep at this station. The flow as low but constant.

Creek approximately .25 miles downstream.

This feeder stream was approximately one foot wide and .5 feet deep. The flow was slight and formed ripples and pools as the stream flowed down the hillside. The stream bottom was composed of sand and gravel, with occasional clumps of allochonous materials, it drained a water shed that was within the county forest with little from man's activities.

STATE OF KENTUCKY SAMPLING

On March 6th, a meeting was held at the Command Post attended by the following:

NAME

Robert Ware
Robert Logan
Robert Bay
Waynon Johnson
Don Schultz
John Gilbert
Royal Nadeau

AFFILIATION

Kentucky Div. of Water Quality Kentucky Div. of Water Quality U.S. Fish and Wildlife Service U.S. Fish and Wildlife Service USEPA-- Region IV USEPA-- ERT USEPA-- ERT

The primary purpose of this meeting was to recommend a sampling survey that would generate the types of environmental information for the OSC, Jack Stonebreaker.

The consensus of the group was:

a. A sampling of Wilson Creek should be performed as soon as possible to determine the extent of impact relative to chemical and biological parameters.

- b. That some acute toxicity tests be performed on water collected from specific locations on Wilson Creek and from the "collection pond."

 The emphasis was not to determine a TL50 so much as to note any control toxic effects on the test organisms.
- c. That chemical analysis be performed on tissues of aquatic organisms collected from Wilson Creek to determine possible biomass contamination of specific organisms compounds originating on the Valley.

At this meeting the State of Kentucky representatives indicated that they would collect water and biological samples which would then be shipped to Region IV's Athens Laboratory for analyses.

On March 8th, a sampling team constituting of EPA-ERT and State of Kentucky personnel took water and sediment core-samples from the same locations as identified for the biological evaluation sampling effort. In addition, water and sediments were collected from an abandoned settling pond within the Valley. Water for bioassays were collected from Station 02, 04 and 08 (collection pit). These samples were then transported to Athens under ice to the Athens Laboratory by Region IV personnel.

On March/9th, benthic organisms (mostly crayfish) and fish (minnows) were collected by State of Kentucky personnel near the same sampling location as previously identified (see Figure 3). These organisms were shipped to Athens under ice for chemical analysis of their tissues.

On April 16-19, 1979, State of Kentucky personnel collected additional biological specimens for chemical analysis. The samples consisted mainly of fish collected from Wilson Creek and some additional downstream station in Bee Lick Creek, Northern and Southern Ditch, and Pond Creek. The fish were collected via electroshocking and hoop nets, then sent on ice to Athens for chemical analysis.

ANALYTICAL METHODOLOGY

Upon receipt by EPA Region IV Surveillance and Analysis Division's Laboratory, the samples were processed and analyzed according to acceptable analytical procedures.

WATER

Water samples were analyzed by a modified procedure which has been devised for Priority Pollutants (revised April 1977).

SEDIMENT

The sediment samples were first processed in a high speed mechanical dewn and in to break is the large soil chunks to a uniform sediment particle size. These homographes were extracted with acetone/hexane at a 1:1 mixture, then analyzed in a Gas Chromatograph/ Mass Spectrograph.

TISSUE

Tissue analyses were performed at the University of Georgia under contract to EPA-Region IV.

Sample cleanup was accomplished through an automated cleanup device which utilized gel permeation. This procedure separates and sorts according to molecule size. Extraction was according to the FDA Pesticide Analytical Method as modified to accompdate the gel permeation cleanup technique.

RESULTS AND DISCUSSION

The extensive environmental sampling and analytical effort revealed the presence of a vast array of inorganic and organic substances in the Valley proper and the adjacent Wilson Creek.

The substances of main concern for this report are the organics, as it is these compounds that information is most scarce. Therefore, more attention will be directed to these substances than the inorganic constituents,

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A.L. TAYLOR SITE

A total The results of the February sampling are reported in Table 🕏 of 126 organic compounds were identified as being present in the water ∴eir.k running off the site or collected in small puddles. Station AT-5 had the .d. 1. largest assortment of compounds. Station AT-1 and 2 had the least number. -1 a Station AT-5 was a large pool of standing water in a small depression from e: snow melt running off the upper slopes which contained a large number of α : drums lying on the surface. Subsequent excavation revealed, undetermined ati number of drums buried in this same

Station AT-7 was a settling impoundment which had been constructed by which are used or associated so with paint and plastic industries.

The results of the sediment analyses revealed fewer number of organic compounds than the water samples collected from the same area within the Valley. Station AT-4 sediment samples revealed the largest number of compounds (28 readistinct identifiable compounds). Aroclor 1254 and 1260 were among the compounds identified from this station along with several solvent type with compounds.

WILSON CREEK WATERSHED

The topographical location of the Valley is at the top of the watershed is of Wilson Creek. This position also affects the hydrological gradient. The the location of Wilson Creek adjacent to the Valley is low and subject the

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to frustration from seasonal storm and melt water contribution. The stream bottom in these upper reaches mainly consists of sand and some clay deposits. These materials are the results of erosion that has carried the materials into the stream from adjacent upland area.

Wilson Creek does not have a USGS gaging station, therefore, there are no historical stream flow data. There is flow in the stream bed throughout the year, although very slight during dry periods.

WATER

The water samples collected on March 8th from Wilson Creek only revealed nine identifiable organic compounds with bis (2-ethyl-hexyl) phthalate occurring at Station 02, 03 04 with station 04 having the largest concentration.

An independent laboratory (Environmental Consultants) analyzed a water sample collected slightly downstream from the Valley. It contained methyl pentanone, ethyl benzene and xylene in trace amounts.

In another water sample analyzed by the same laboratory on the same day (March 4), xylene compounds were found in trace amounts.

On a separate sampling run performed by the State of Kentucky in (see 7 is use 5)
early February A, water samples collected just downstream from the Valley contained a vast array of organic compounds (38 identifiable compounds. See Table 2). Many of these were present at all of the station sampled in Wilson Creek. Most of the compounds occurring in the water on this sampling date are ones that are associated with paints and solvents. The water samples from the station closest to the Valley, contained elevated levels of methyl ethyl ketone and methyl isobutyl ketone.

SEDIMENTS

The sediment samples collected by the State of Kentucky in Wilson Creek were contaminated with trace amounts of organic compounds (19 identified compounds). Aroclor 1254 and 1260 were present at all station in Wilson Creek in above trace amounts.

ECOLOGICAL EVALUATIONS

The results of the biological surveys of Wilson Creek proper performed by EPA biologists and State of Kentucky biologists are outlined in Table \mathcal{Z} . Only those station that were sampled by both groups are listed. The observations made by each are similar and tend to collaborate each others results.

Some of the stations sampled by each group were not synonimous. For example, Station 04 through 06 of the Public logical survey were closer to the Valley while Station 04-08 of the State survey were donwstream outside of Wilson Creek groper. (TABLE 4).

The observations of the EPA survey for these remaining stations are listed in Table .

The populations of aquatic invertebrates living in Wilson Creek belong to those groups of organisms that are usually found in stream through the physical/chemical features. Many of these organism types can occur in streams that have been disturbed by man's activities. Therefore, their presence in streams is not necessarily indicative of stress being applied to aquatic ecosystem by the contaminants emanating from the Valley.

The presence of the macroinvertebrate species observed indicate that toxic compounds occurring in the water and sediments of Wilson Creek are not having a catastrophic deleterious impact on these populations.

More likely, the impact to the biological resource living in Wilson Creek is in the form of sublethal, low level contamination of biomass. This biomass

Compounds found in the Valley, many have a potential for indicated from the Log p values (rable 5). Log p is an expression of octanol/water partition over in water. It is expressed as a ratio. The relative to a loap, a va in water. 4.0 indicates that the material is 10,000 times more soluble in octe than water. A substance that is soluble in octanol is considered to be potential SOLIBLE IN SOME OF the biochemicals and that present in living systems. And thought at some of the property of the source of the s Bysiological finctions, accomplate in certain tissues and be bassed on through the food web to the next trophic level species. SHOW THE PARTY Applished biological concentration factors (BCF) that have been determined indeed. As a regult, the impact of many of these compounds in without or Mis is the case for many of the compounds present in the Valley. The presence of the abundant population of amphipode and ispode are Cear Leaves and Similar Organic naterials for food. These organisms which Diesel won by more mible species as a food source, i.e., fish present.

surprising to find this type of energy flow or food web present in a creek like Wilson Creek which flows through the heavily wooded area near the Valley.

An interesting aspect regarding the fate of contaminants are large molecule organics, with various degrees of water solubility. Those that are rather insoluble are sorbed onto the particulate or suspended matter, i.e., eroded soil particles, dead leaves and bark pieces, etc. Some of these contaminants are deposited in the stream bottoms or in shallow shoal areas. Some are incorporated into the food webs when consumed by the indigenous populations feeding upon the allochthonous materials or bottom deposits.

It so happens that the organic scan performed on the tissues collected were for PCB's and pesticide compounds the water analyses did not indicate the presence of halogenated pesticides in the Valley, therefore, it is not surprising that these type compounds were not detected in the organisms analyzed. These same analyses do indicate that there are other compounds, some of which are known toxics, i.e., Priority Pollutants, etc., that are present in the Valley. These are the types of compounds that if incorporated into the biological resouts could seriously affect the utility of these resources. This phenomena has been well documented for Mirex in Lake Ontario and Kepone in the James River. In both cases, the biological resouts affected were determined to be unfit for consumption or any other type of exploitation.

Since the tissue extracts were only analyzed for PCB's and halogenated pesticides, other organic compounds may be present in the tissues, therefore, it may be wise to expose these extracts to GC/MS examination. GC/MS would reveal the presence of other compounds, i.e., PNA's that might be present.

MODE OF CONTAMINATION

The main mechanism of environmental contamination to the aquatic resources is via surface and just below the surface runoff into the Wilson Creek watershed. This was obvious in the initial EPA investigation and actually triggered the activation of a 311(k) cleanup by Region IV.

Surface water containing oils were sighted at this time, however, the underlying, more serious concern related to the numerous potentially toxic compounds that were in the drums.

The discharge of toxic compounds from the Valley is obvious but not easily quantified. Surface runoff is dependent upon rainfall and snowfall. An examination of the Climatological Data Record for the Louisville Weather Office of the National Weather Service located at Standiford Field Airport revealed in amounts and types, for the spring when most of the sampling and mitigation activities were occurring.

The actual area of the Valley containing drums was about 10.1 acres as determined from the USGS Topographic Map (Brooks, Kentucky Quadrangle). The in the Valley are relatively impervious, therefore, most of the precipitation falling on these 10 acres will end up as runoff.

The collection pond and collection ditches were designed to entrap most of the runoff emanating from the drums storage area. According to the latest estimates, the effluent flow from the in-place treatment system is approximately 227 liters/min (60 gals/min). The system is operated for ten days out of a month during the summer, thus, the discharge from the Valley for this summer was approximately 327,059.5 liters/day. Negating evaporation from the collection pond, the discharge volume would approximate the amount of water being contributed to Wilson Creek from the Valley, prior to the mitigation procedures.

Knowing the discharge rate and the concentrations of materials in this discharge, it is obvious that significant amounts of toxics were being con-

tributed to Wilson Creek from the Valley. For example, Diethyl Phthalate, which is one of the Priority Pollutants, would be discharged from the Valley at the rate of 8.5 grams/day for the summer months; perhaps more for the months when flow would be greater.

DAFT

FOUND are used as solvents or associated with plastics or are indicated by the blank space. The first out of a majority c The rest are distributed rather evenly throughout the or TOXIC EFFECTS OR ORGANIC EFFECTS FOUND IN THE VALLEY.

When the results of the initial environmental sampling revealed the extent and types of organic compounds in the Valley, a literature search was performed to determine the known effects of these compounds. Table 7 categories the effects according to the effects documented in the Registry of Toxic Effects (Fairchild, et al, 1977).

Out of the 142 compounds, 40 are included in the Human Effects section of the Registry of Toxic Effects, 27 are in the Carcinogenic Effects Section, and six are in the Teratogenic Effects Section of the Registry.

In order for a substance to be listed in the Carcinogenic Effects Section, there must be documented evidence that Malignant tissues are produced by the substance in the body of the test animal. For a material to be included on the Teratogenic Effects, it must be documented that changes in offspring are produced but are not transmitted to their offspring. Those substances that are listed in the Human Effects have been found to have produced responses that is considered deleterious in some manner by the panel of experts that review and screen these materials.

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 U.S. Department of Health, Education and Welfare, DHEW, Publ. #78-104-A

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Methyl Propyl Ester of Benzoic Acm									
Pentaoxapentadecane	4.3	ļ	30	<u> </u>	6.2	 	5.7		
3is (2-ethvihexvi) Phthalate 2/	741								
Methyl Butanoic Acid	 	745	1-10		1	<u> </u>	<u> </u>		
Phenol 2/	741		1-10		741	<u> </u>	TS1		
Setnyl friendl (3 isumers)	 	Y < 5	1-10		<u> </u>	<u> </u>	-	745	
C. Alkyl rhendl Albyl nevanole held		<u> </u>		745		\sqsubset			
Dimethyl Propanol	2,8				1-15	<u> </u>	25 2.2	<u> </u>	
Phinalic Acid crans-igl-dishlorothylyne 2/	93	į	114						
loruene <u>ro ir</u>			31		i	L_			
Ithyl Sensene I/	7700		2,00			<u> </u>			
Trichlorotrifluoroethane									
Pethyl Ethyl Ketone 1/ Hexane	7000		6300			+ =			
Methyl Isobutyl Ketone 2/	2600		13,000						
2-nexanot 2-netnyt-1-propanol						 	 		
Tetrachiorpethane									
!-buranol	FC5		34	-		 	-		·
1,1-aichloroethane :1,1-dichloroethane					n ingr		-		
Vinvi chloride 1/	7<5		755	1 6 6 6 1 6 5 6	100			-	
Dimethyl disulfide Methylene Chloride 2/									
Trimeinvl Cyclonexanone	- 58	-	62_						
Methyl Benzene Methanol Cirponic Acid, Butyl Phenyl Ester									
Propoxy Butane				Š				i	
Di-n-putyl Phthalage 1/ Fluoranthene 2/					•			-	
Dimethyl Phenol () isomers)	TC1								
Hexanote Acid Hydroxy Methoxy Benzene		745				<u> </u>		745	
Pentachiorophenol 1/ 2/ Naphthalene 2/			•						
i, _, -trichioroethame			3.6		7610		741,0		
Campnor 2/	12					——			
Metnyl esters of Ethyl Hexanoic Acid Benzene Propanic Acid	22-	725	100		16		73	7 4 5"	
Heptanoi		· - 3			15		77	723	
Heptahone		£	48	.					
Indece	62_		108		18-	-	-26		
Indene Methyl (methy ethanol) cyclonexanol	62_				V8-				
Methyl (methy echanol) cyclonexanol a-Terpineol	62_				V\$-				
Methyl (methy ethanol) cyclonexanol a=Terpineol Terpineneol Ilsoportne 2/	62_	5			V 8-				
Methyl (methy ethanol) cyclonexanol a=Terpineol Terpineorol Tisophorone 4/ Quinoline	62_	5			V.F-			1 2	
Metnv1 (methv etnanoi) cyclonexanol a=Terpineol Terpineneol Isophorone 2/ Quinoiine Metnvi Manthalene Acenaphorone 2/	62-				VF			1	
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Metnyl (nethy ethanol) cyclonexanol a-Terpineol Terpineneol Isophorene 2/ Quinoline Metnyl Mannhalene Acenabathene 4/ Disprioduran Beca-manthonitrile [Tuorene Tributyl Ester of Phosphorte Acid Phenanthrene/Anthracene 2/ Butyl Metnyl benzene bullonamide Pyrone 2/ Methyl Metnyl benzene bullonamide Eurovy Propanol Chalkyl Styrene Tethyl Miropoviokyl Ethany Propunol Butynky Ethanol Purcoline	1.3		5,0				3.	Y<5	
Methyl (nethyletnanol) cyclonexanol a-Terpineol [Ferpinenerol Isophorene 2/ Mulnoline Methyl (Aphthalene Acenabathene 2/ Lightorutan Beta-mapathonitrile [Fluorene Friburyl Ester of Phosphorit Acid Phenanthrener/Anthracene 2/ Butyl Esteryl benzene bullonamide Pyrone 2/ Methyl uctumone Butonyl Propanol Ch Albyl Styrene "Fithi Irmponylotyl Ethanyl Propunol Butyny Ethanol Ch Albyl Styrene "Estal Irmponylotyl Ethanyl Propunol Butyny Ethanol Delinetnyl Fronol	1.3		5,0				3.	Y<5	
Methyl (methyletnanol) cyclonexanol a=Terpineol Terpineneol Tisoportene 2/ Mulnoline Methyl Mannthalene Acenabathene 2/ Lightoriusa Beta-manathonitrile Tiburne Tributul Ester of Phosphoric Acid Phenanthrene Anthracone 2/ Butyl Tisteryl sergene bullonamide Pyrone 2/ Wethyl octabone Buthyl Propanol Un Alkyl Styrene Methyl sergene Despendent Propanol Butyky Tisopokylokyl Ethaxy Propanol Butyky Ethoxy Ethanol Pulmoline Dimethyl Phenanol Political Styrene Dimethyl Factoriol	1.3		5,0				3.	Y<5	
Methyl (nethyletnanol) cyclonexanol a-Terpineol Ierpineneol Isophorene #/ Wolnoline Methyl Mannthalene Acenaphtene #/ Clicenforurin Beta-naphtene #/ Clicenforurin Beta-naphtene #/ Pluorene Triburil Ester of Phosphoric Acid PhenanthrenerAnthracene #/ Butyl Methyl benzene aulfonamide Pyrone #/ Wethyl Octanone Buthyk Tribanol Un Alkyl Styrene "ethyl itropoxylocyl Ethayy Propunol Buthyk Sthory Ethanol Pulnoline Dinethyl Thomas	1.3		5,0				3.	Y<5	
Methyl (methyletnanol) cyclonexanol a-Terpineol Terpinenerol Terpinenerol Terpinenerol Terpinenerol Terpinenerol Terpinenerol Terpinenerol Mathyl Tapontalene Actavi Tapontalene Actavi Tapontalene Terpineria	1.3		5,0				3.	Y<5	
Methyl (nethyletnanol) cyclonexanol a-Terpineol IErpineneol Isoporone 2/ Outnotine Methyl Manchalene Aceaubathene 2/ Stoporone 1/ Stoporone 2/ Butyl Stoporone 2/ Butyl Methyl Senzene bullonamide Prened 2/ Methyl Methyl Senzene bullonamide Fyrone 2/ Methyl Methyl Senzene bullonamide Fyrone 2/ Methyl Methyl Senzene Stopyl Propanol Fyrinoline Simply Resonol Fetta nethyl Pentanone 3/ Stopyl Stopyl Senzene Stopyl Methyl Resonol Stopyl Methyl Pentanol	1.3		5,0				3.	Y<5	
Methyl (methyletnanol) cyclonexanol a-Terpineol [Ferpineneol] [Isophorene 2/ Mulnoline Methyl (Aphthalene Acendonthene 2/ Literroruth Beta-maphinonitrile [Fluorene Friburyl Ester of Phosphoric Acid Phenanthrener/Anthrache 2/ Methyl (Ester) benzene bullonamide Pyrone 2/ Methyl (Ester) Distributione Buldowy Propanol Chi Albyl Styrene "ethyl (Erpody) Ethayy Propunol Butyny Propanol Chi Albyl Styrene "ethyl (Erpody) Dinethyl stonoy Dinethyl stonoy Fredanol Cotta methyl Pentanone Dinethyl Fredanol Cotta methyl Pentanone Chi Albyl Fredanol Chi	1.3		5,0				3.	Y<5	
Methyl (methylethanol) cyclonexanol a=Terpineol Terpineol Terpineneol Tisophorene 2/ Mulnoline Methyl Enonthalene Acendonthene 2/ Dipariorutan Beta-mapathonitrile Tituorene Tributyl Ester of Phosphoric Acid Phenanchenene/Anthiacone 2/ Batyl Enteryl betzene bullonamide Pyrone 2/ Methyl Octubone Buthyl Propanol Up Albyl Styrene Methyl Octubone Buthyl Firmodylotyl Ethany Propunol Buthyl Tribodylotyl Ethany Propunol Buthyl Tribodylotyl Ethany Pinoline Dimethyl Tribodylotyl Ethanol Pinoline Dimethyl Tribodylotyl Ethanol Fetra methyl Pentanone 1 Dimethyl Thomas 2 Technic Themo Ce Albyl Bentene Up Albyl Pentanolol Telfacyl Pentanolol	1.3		5,0				3.	Y<5	
Methyl (nethyletnanol) cyclonexanol a-Terpineol Isophoner—ol Isophoner—ol Isophoner Methyl Mannthalene Methyl Methyl Steer of Phosphonic Acid Phenantheneranthalene 2/ Methyl Met	1.3		5,0				3.	Y<5	
Methyl (methyletnanol) cyclonexanol a-Terpineol Terpinenerol Terpinenerol Terpinenerol Terpinenerol Tesonorche &/ Wulnoline Methyl Manthalene Acenanthene &/ Tiparorutan Beta-magninonitrile Tiparorutan Beta-magninonitrile Tiparorutan Beta-magninonitrile Tiparorutan Beta-magninonitrile Tiparorutan Tesouri Ester of Phosphorit Acid Phenantheneranthinoche &/ Methyl Ustavi benzene bullonamide Pyrone &/ Wethyl Ustavi benzene bullonamide Pyrone &/ Tethyl Titarooxio(x) Ethoxy Propunol Butovi Yenganol Ch Albyl Styrene Tethyl Titarooxio(x) Ethoxy Propunol Butovi Ethoxy Ethoxy Ethoxo Propunol Tetra methyl Pentanol Tetra methyl Pentano	7.7		5,0				3.	Y<5	
Methyl (nethyletnanol) cyclonexanol a-Terpineol Isophoner—ol Isophoner—ol Isophoner—ol Isophoner Methyl Manthalene Methyl Manthalene Methyl Manthalene Methyl Manthalene Methyl Manthalene Methyl Manthalene Methyl Methyl Ster of Phosphorit Acid Phonanthener/anthickene 2/ Methyl Methyl Servene Methyl Methyl Servene Methyl Met	7.7		5,0				3.	Y<5	
Methyl (methyletnanol) cyclonexanol a-Terpineol Terpinenerol Terpinenerol Terpinenerol Terpinenerol Tesonorche &/ Wulnoline Methyl Manthalene Acenanchene &/ Timerorutan Beta-manchonitrile Timorene Tributyl Ester of Phosphoric Acid Phenancheneranchichene &/ Wethyl Uctumone Butory Propanol Chi Albyl Styrene Testil Tribooxylotyl Ethaw Propunol Butova Ytropanol Chi Albyl Styrene Testil Tribooxylotyl Ethaw Propunol Butova Ethoxy Ethanol Phinoline Dimethyl Tribooxylotyl Ethaw Propunol Testil Tribooxylotyl Ethaw Testil Tribooxyl Phosphol Testil Tribooxyl Phosphol Testil Tribooxyl Phosphol Testil Tribooxyl Phosphol Testil Tribooxyl Tribooxyl Propanol Testil Tribooxyl Tribooxyl Propanol Testil Tribooxyl Tribooxyl Phosphol Testil Storyl Ethale Testil Storyl Ethale Testil Storyl Phosphol Testil Storyl Ethale Testil Storyl Ethale Testil Storyl Ethale Testil Storyl Ethale Testilons Testilon	7.7 2.2 2.9 7.2 9.9	7 < 7	510 4/		74.0		17.0	Y<5	
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Methyl (methy ethanol) cyclonexanol a=Terpineol Terpinener—ol Terpinener—ol Terpinener—ol Terpinener—ol Terpinener—ol Terpinener Methyl Laphthalene Acenanthene 2/ Disparoruta Beta-manathonitrile Thubrene Tributyl Ester of Phosphoric Acid Phenantheneranthathache 2/ Survi Esteryl betaene bullonamide Pyrone 2/ Methyl uctunone Butoyy Proganol Cy Alwi Styrene Tethyl Tribooylokyl Ethany Propunol Tethyl Tribooylokyl Ethany Propunol Pyrineline Dimethyl firmooylokyl Ethany Propunol Pyrineline Cy Alwi Styrene Tethyl Tribooylokyl Ethanol Pyrineline Dimethyl firmooylokyl Ethanol Pyrineline Cy Alwi Bentene Cy Alwi Bentene Cy Alwi Bentene Cy Alwi Pentandiol Tribesnyl myrine Tethyl Fromanol Tethyl Portandiol Tribesnyl myrine Tethyl Portandiol Tethyl Fromanol Sutoyy Fromanol Sutoyy Fromanol Sutoyy Fromanol Sutoyy Fromanol Tethyl Styre Reniole Acid Tribesnyl Entyl Reniole Tethyl Styre Reniole Acid Tribesnyl Entyl Reniole Tethyl Styre Reniole Tethyl Styre Reniole	29 /·/7 9.9	F < 9	5.0 6/		74.0		17.0	Y<5	
Methyl (nethyletnanol) cyclonexanol a-Terpineol Isophonene 2/ Uninoline Methyl Mannthalene Methyl Methyl Mannthalene Prince 2/ Methyl Met	29 /·/7 9.9	T < 7	5,0		7c/10 		17.0	Y<5	
Methyl (nethyletnanol) cyclonexanol a-Terpineol Isophonene 2/ Isophonene 2/ Buinoine Methyl Manthalene Acenanthene 2/ Isophonia 3 Beca-manthonittle Fluorene	29 /·/7 9.9	F < 3	5.0 \$/		7c/10 		17.0	7<5	
Methyl (nethyletnamol) cyclonexamol a=Terpineol Terpineneol Tisophorene 2/ Mulnoline Methyl Lapathalene Acenabathene 2/ Lipanoliutan Beta-mapathonitrile Tiluorene Tributyl Ester of Phosphoric Acid Phenantarene/Antafachae 2/ Butyl Tisteryl sergene bullonamide Pyrone 2/ Wethyl cyclinone Butyy Proganol Up Alkyl Styrene Methyl volinone Butyy Proganol Up Alkyl Styrene Methyl styrene Methyl firmodylocyl Ethavy Propunol Butyky Ethavy Ethanol Friminine Dimethyl firmodylocyl Ethavy Propunol Butyky Butylone Tectal terpodylocyl Ethavy Propunol Fortal methyl Profanol Fortal methyl Profanol Tectal methyl Profanol Titlesawl benene Up Alkyl Phenol Titlesawl benene Up Alkyl Profanol Titlesawl benene Methyl Ben	29 /·/7 9.9	T < T	5.0 \$/		7c/10 		17.0	7<5	
Methyl (nethyletnanol) cyclonexanol a-Terpineol Isophonene 2/ Usinonine Methyl Mannthalene Acenanthene 2/ Usinoniorush Becamanthene 2/ Usinoniorush Becamanthene 2/ Usinoniorush Becamanthene 2/ Usinoniorush Becamanthene 2/ Methyl Ester of Phosphoric Acid Phenantheneranthicache 2/ Methyl Usinone Butdyl Propanol Ch Albyl Styrene Tethyl (Tropoxyloty) Ethayy Propanol Butdyl Propanol Ch Albyl Styrene Tethyl (Tropoxyloty) Ethayy Propanol Butdyl Ester Tethyl (Tropoxyloty) Ethayy Propanol Minchine Dimethyl Endow Dimethyl Endow Co Albyl Endow Tethyl Propanol Istra nethyl Propanol Istra nethyl Propanol Istration Propanol Ist	29 /·/7 9.9	7<7	5.0 \$/		7c/10 		17.0	7<5	
Methyl (nethyletnanol) cyclonexanol a=Terpineol Terpineneol Terpineneol Terpineneol Terpineneol Terpineneol Terpineneol Terpineneol Terpineneol Macari Laparthalene Terpinel Ester of Phosphoric Acid Phenanciarene/Anthalace 2/ Macari Terpinel Pentanol Terpinel Te	29 /·/7 9.9		5.0 \$/		7c/10 		17.0		
Methyl (nethyletnanol) cyclonexanol a=Terpineol Terpineneol Tisophorene 2/ Mulnoline Methyl Engenthalene Acendonthene 2/ Eligophorutan Beta-mapathonitrile Tiluorene Tributyl Ester of Phosphorit Acid Phenanthrene/Anthrache 2/ Butyl Enteryl betane bullonamide Pyrone 2/ Methyl cotinone Butyy Proganol Up Alkyl Styrene Testyl Tripopylocyl Ethaxy Propunol Butyy Proganol Up Alkyl Styrene Testyl Tripopylocyl Ethaxy Propunol Butyy Proganol Up Alkyl Styrene Testyl Tripopylocyl Ethaxy Propunol Butyky Etharit Butyky Etharit Dinethyl Frononol Testyl Tripopylocyl Ethaxy Propunol Testyl Tripopylocyl Propunol Testyl Tripopylocyl Propunol Testyl Propunol Testyl Propunol Testyl Propunol Testyl Propunol Testyl Tripopyl Propunol Testyl Tripopyl Propunol Testyl Tripopyl Propunol Testyl Tripopyl Renaiol Testyl Tripopyl Renaiol Testyl Tripopyl Testyl Tripopyl Testyl Tripopyl Testyl Testyl Tripopyl Testyl Testyl Tripopyl Testyl Testy	29 /·/7 9.9	7<7	5.0 \$/		7c/10 	.0097	17.0	7<5	
Methyl (nethyletnanol) cyclonexanol a-Terpineol Isophonene 2/ Uninoline Methyl Mannthalene Acenanthene 2/ Microtrutan Becampathene 2/ Methyl Store of Phosphoric Acid Phenantheneranthalacene 2/ Methyl Microtrutane 2/ Methyl Microtrutane Pyrene 2/ Methyl Microtrutane Distry Trannol Craikyl Styrene Methyl Microtrutanol Microtrutanon Microt	29 /·/7 9.9		5.0 \$/		7c/10 	.0097	17.0		
Methyl (methyletnamol) cyclonexamol a=Terpinend===01 Isophorene #/ Myunoine Methyl haphthalene Tributyl Ester of Phosphoric Acid PhenancinenerAnthalache #/ PhenancinenerAnthalache #/ Butyl Methyl betzene bullonamide Pyrone #/ Methyl octanone Buthyl Propanol Up Albyl Styrene Methyl itropoxylotyl Ethoxy Propunol Buthyly Propanol Up Albyl Styrene Methyl itropoxylotyl Ethoxy Propunol Buthyly Propanol Pitoria itropoxylotyl Ethoxy Propunol Buthyly Ethory Co Albyl Styrene Co Albyl Pentanone Tetryl finenene Co Albyl Pentanol Indianol Propuny Tropanol Fetryl Mythyl Pentanol Fitoria Mythyl Pentanol Fitoria Mythyl Pentanol Fitoria Mythyl Pentanol Methyl Pentanol Methyl Pentanol Methyl Pentanol Methyl Styreney Methyl Methyl Me	29 /·/7 9.9		5.0 \$/		7c/10 	.0097	17.0		
Methyl (nethyletnanol) cyclonexanol a-Terpineol Terpinener-ol Terpinener-ol Terpinener-ol Terpinener-ol Terpinener-ol Terpinener-ol Terpinener-ol Terpinener-ol Terpinener Methyl Japanthalene Acenanchene of Terpinener Ter	29 /·/7 9.9		5.0 \$/		7c/10 	.0097	17.0		
Methyl (methyletnamol) cyclonexamol a=Terpinener—ol Isophorene #/ Myunoline Machyl hapithalene Mily hapit	29 /·/7 9.9		5.0 \$/		7c/10 	.0097	17.0		
Methyl (methyletnamol) cyclonexamol a=Terpinener—ol Isophorene 2/ Mulnoline Methyl (manchalene Acenabathene 2/ Lipanoriutan Beta-manathonitrile Tiluorene Tributyl Ester of Phosphoric Acid PhenanthrenerAnthrachec 2/ Butyl Nictoryl sensene bullonamide Pyrone 2/ Wethyl octanone Buthyl Propanol Up Alkyl Styrene Pethyl Istophoryl Ethavy Propanol Buthyk Styrene Pethyl Istophone Buthyl Propanol Up Alkyl Styrene Pethyl Istophone Buthyl Propanol Up Alkyl Styrene Pethyl Istophone Buthyk Propanol Up Alkyl Styrene Pethyl Istophone Dimethyl Fromonol Fetta methyl Predanone Dimethyl Propanol Fetta methyl Predanone Dimethyl Propanol Up Alkyl Styrene Pethyl Reneal Peth	29 /·2 9.9 9.6 /·9	./3	5.0 6/ 5/ 6/ 1-10 1-10 15	J.0	7c/10 		213	.52	
Methyl (nethyletnanol) cyclonexanol a-Terpineol IESOINGENEW-Ol IES	29 /·2 9.9 9.6 /·9		5.0 6/ 5/ 6/ 1-10 1-10 15		7c/10 	.0097	213		

Unidentified Trichoptera (sliens) . de pertit Aldedora Unidentified Ephemeroptera Gastropoda eboqorases Turbellarid flatworms probably cambarus sp. (Juvenile: eosn_{ITOW} Platyhelminthes Linnsphilidae aspilidae probably Liroquis sp. Trichoptera Decopoda ·ds psiyd ·de sourennes Arqeqord Gastropoda ebodo reotogy to Wilson Cre, eoshttow de sureques Station 02: (Control Unnal to Wilson Cre, Decopoda Liroqua ap. .ds eludit Station 02. (Fairdale Raod Bridge Area) Isopoda Tipulidae 96biludia Jeoril Videdord Taopoda is surrennes देव क्रिक्टियां वर्षः eboqirlojnin, Station 01. Decopoda Liroeus sp. EDA (MATON cas perom Naties) Isopoda . पुढ क्यार्स्स्य कर CHICI.

EPA MACROINVERTEBRATE SURVEY March 7, 1979

STATION

04 Just downstream from aerator

05 Just downstream from Golf Course pond outlet upstream from Valley



06
Riffle-pool area on feeder stream into Wilson Creek

OBSERVATIONS

Isopoda probably Lirceus sp.

Amphipoda probably Gammarus sp.

Oligochaeta unidentified

Isopoda probably Lirceus sp.

Decopoda probably Cambarus sp.

Amphibia salamander egg masses

Amphipoda probably Gammarus sp.

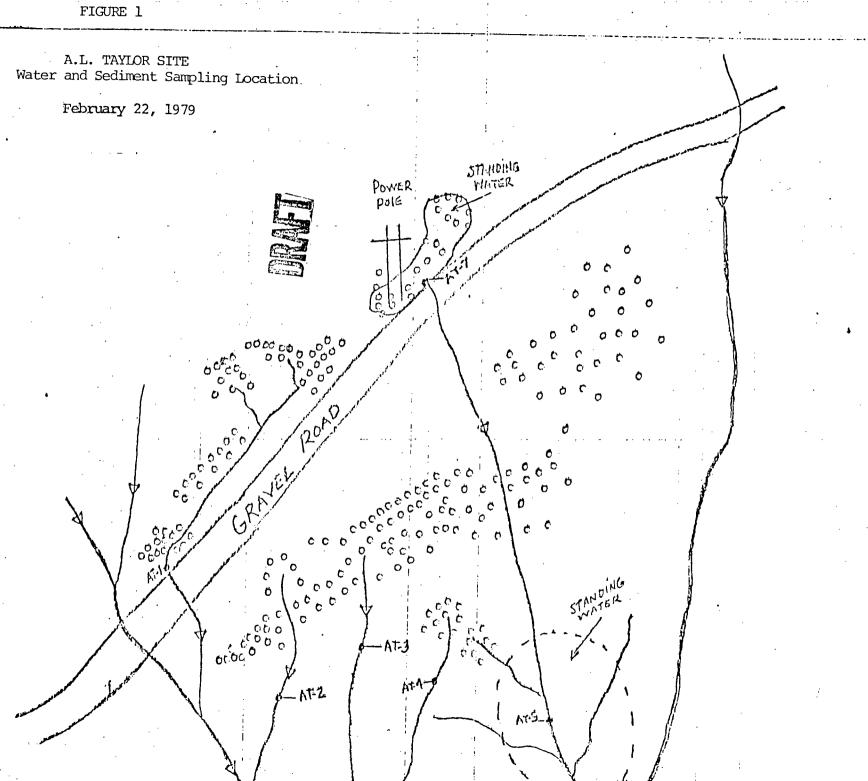
Isopoda probably Lirceus sp.

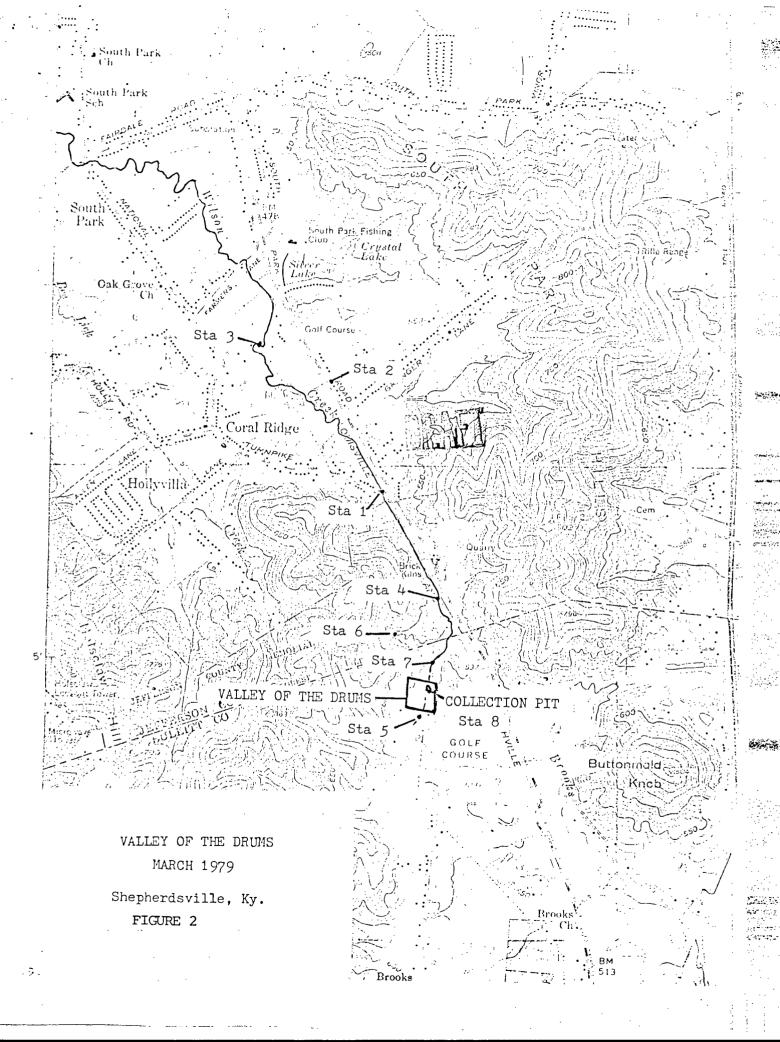
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(פפר) לאיסקיים	Loc P	BCF *	<u> </u>	
Sentate Acid 1/		 	·	
24 Alavi Benzoic Acid				
Tethal Sensene pullinable 2 Unitentified Compounds				
(viene (2 isoness)				
rechyl fentyndi Methyl Cyclopentanol Dimethyl fentangne	1,25			
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is Alevi Benzene () (somers)	7/ 75			
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C. Alayi Senzene () isomets) 4.a Dimethyl Senzene methanol 3. Alayi otytene				÷
Isophorone 2/				
Phenosy Mechal Oxidans Phenosy Lines				
Othernyl Phrhatace 2/ Phonoxypropanedict	2.1/			
Tetraoxiaodecane	3.75		ļ	
Methyl Propyl Ester of Benzoic Acid				
Pencuoxapentalecane 31s (2-echylhexyl) Phthalate 3/	<u> </u>			
Methyl dutanole Acid - renelaule Veld Phenol 2/	140 114			
Co Alayi Phenoi (3 isumers)	1.49, 1.64			
ing maxi themsi				
Diperavi Prominol Phinalic Acid Iransel				
Columne 1/ 1/				
Trichlorotrifluoroethane				
methyl Sthyl Ketone -/			10 10 10	
Potnyl Isonutyl Ketone 2/ 1-nexampl 1-netnyl-1-promampl	45 76 92 94			
lectachiorgethane	165, 76, 83, 74			
1:-bexanol -,l-dichiorpethane	1.79			
1.1-dichloroechane vinvi chloride 1/ Dimethyl disulfide				
Methylene Chioride 2/ Trimethyl Cyclonexanone	/.77		·	
Methyl Benzene Methanos Marbonic Acia, Butvi Phenyl Ester				
Propoxy Butane Di-n-butyl Potoslate 1/ Fluoranthene 2/	5.75			
Dimetnyl Phenol (3 isoners) Hexano (Acid	1.94, 1.90			
Hydroxy Methoxy Benzene Pentachiordonenol 1/ 1/	5.12 2,15, 405	7.70 , 1.99		
Naonthalene 2/	3.76, 3.72	4.26		
Ci Alkvi sencolo Acid Metnyl esters of Ecnyl mexanolo Acid				
Senzene Propanio Acid Heptanol				
restance	2,42			
'a-Terpineot (Terpineneot				
isophorphe 27				
Acenanchene 4/	3.93			
Seci-mioninonitrile				
Griputol Ester of Phosphosic Acid				
Sucvi Motovi senzene sulfanamide -dyrone 2/ Methyl Scianone				
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"sutvoky Ethoxy Ethanol "sutvoky Ethoxy Ethanol "sutvoky Ethoxy Ethanol "sutvoky Ethoxy Ethanol				
Otherani rannal Totra metnyl Pentanone				
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- a-6/1 chenoi	<u> </u>			
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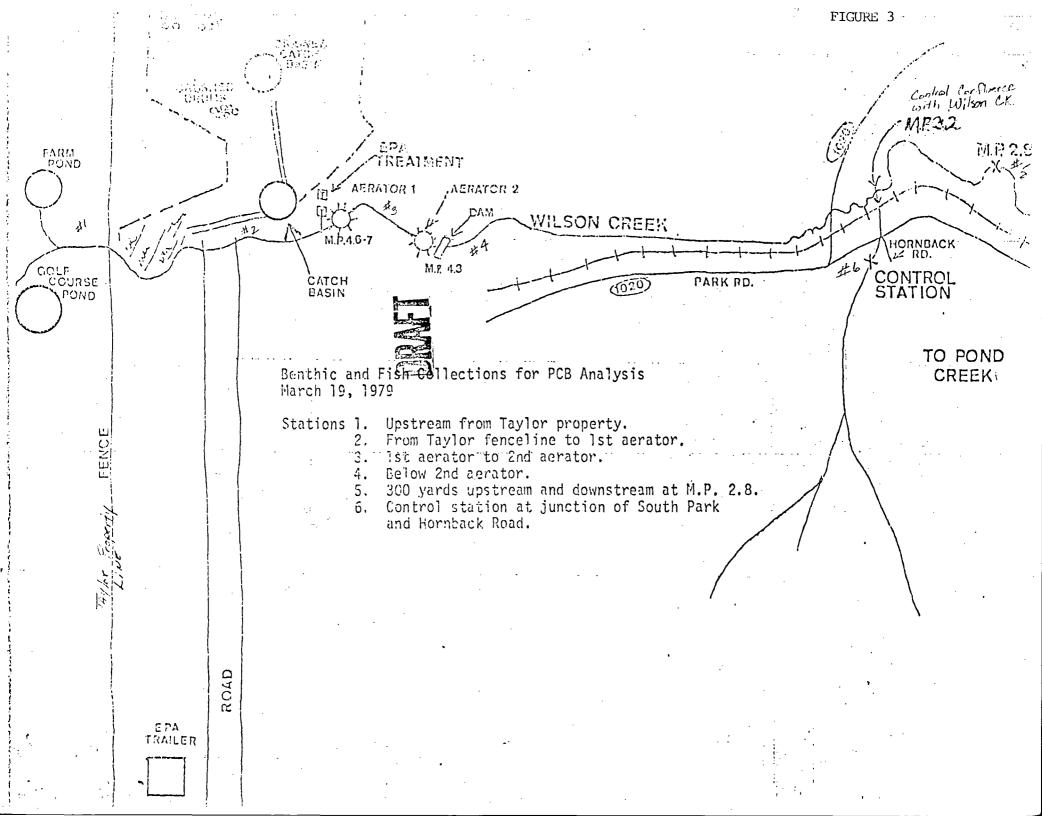
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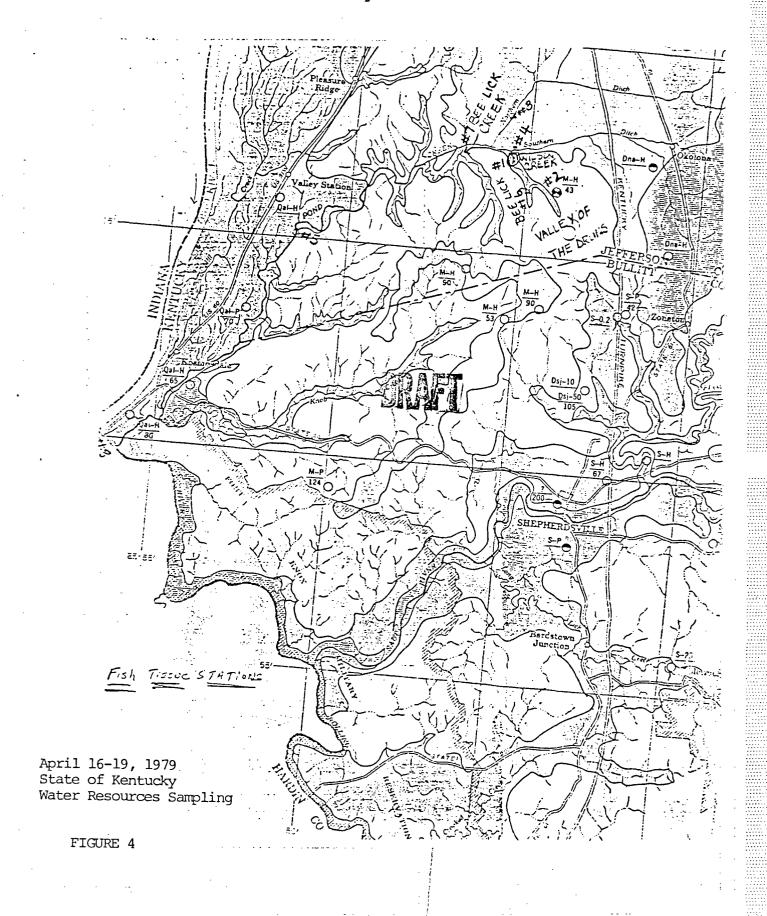
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errate Acid 1/						LFOCIO							
rovi Benzoic Adid (1 Isomers) • Alavi Benzoic Acid • Alavi Benzoic Acid					<u> </u>	 		<u> </u>	<u> </u>	<u> </u>	<u> </u>	 	#
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) Unidentified compounds //ene (2 isomets)		<u>+</u>											
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enoxy Methyl Oxitane			_ f						-				-
lorophenokypropanol methyk Phinalace 2/ mnokypropanoujci			+					<u> </u>				 	士
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(nyt rugno) Alkvi Phenol (3 isomers)			+							-			
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cone Conforotrifluoroethane		+ +					ا السا	1 141 1	<u> </u>			#==	F
cant Echyl Kerone 2/	+	+						+		 		+	1
rexangl metnyl-l-propanol		-1							7			1	\vdash
rachloroethane wtanol							+					#==	E
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vi chloride 1/ ernvi disulfide			+						<u></u>				E
hviene Chiorice 2/ methvi Cvolonexanone		+											I
hvi Benzene Methanoi bonic Acid, Butvl Phenyl Ester boxy Butane													+-
n-putyl Pothalate 1/ oranthene 2/													
echyl Phenol (3 150mers)									+	+			F
roxy Methoxy Senzene cachiorophenol 1/ 2/ hthalene 2/								+					-
,-trichiofoethame	+	+	+	+									
Alkvi Benzolc Acid nvl esters of Ethyl Hexanolc Acid								+		+-			E
zene Propagio Acid tanol tanone		+				==						<u> </u>	<u> </u>
ene hvl (methv ethanol) cvclonexanol							†						
erpineol pineneol							+						
phorone 2/ noithe nyr Laphchaiene		+		+		$= \exists$		E		-			-
naonthene Ei enzoluran			_+			===		<u>+</u>					
a-naonthonicrile													
nutyl Ester of Phosphotic Acid nunthrene/Anthracene il Vi Mothyl senzene sultanumide													
ene 4/						==							
nyv Propanol Alkyi Styrone nyl (Eropokylovy) Ethovy Propanol			+	- : -									
voky Etnaxy Etnanol naline						$\equiv \downarrow$							
vtami rodnoj ra metnyl Pentanone utyt Ether		+											
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Tethy: Pontandiol Dethyl nekube hyl Pronoxy Pronanol						$= \exists$	+						
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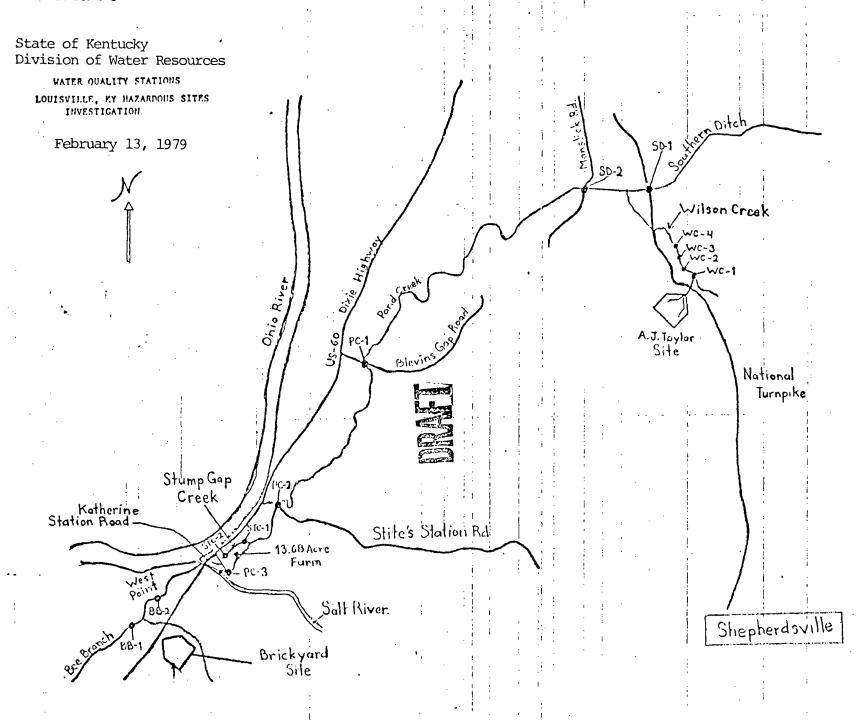
	1.000.001		* *	TABLE 7
(dee) 6730E200	HUMAN EFFECTS	CARCINOGEN	TERATOGEN	/
Senzoic Acid 1/ Methyl Senzoic Acid (1 Isomers)	+			
Alkyl Benzoic Acid			=======================================	
Conidentified compounds Unidentified compounds	-	===	=	
(viene (2 isomers) fetnyl Pentanol	+	===	=======================================	
Methyl Cyclopentanol imethyl Pentanone	=	===	-	
ethyl Hydroxy Pentanone	<u>†</u>	===	=======================================	
- Alkyl Benzene (3 isomers) Volonexanone ibutoxymethanol (2 isomers)	1	+ - = =		
ethyl Styrene Alkyl Benzene (5 isomers)	<u>+</u>	===	<u>±</u>	
a Dimethyl Benzene Methanol	===	===		
sophorone 2/	+		-	
enoxy Methyl Oxirane envl Ether	=			
herophenoxypropanol methyl Phthalate 2/	<u> </u>	+ +==	-	
enoxypropanediol traoxadodecane ethyl Phthalate 2/			=======================================	
chyl Propyl Ester of Benzoic		===	= =	
ntaoxapentadecane s (2-ethylhexyl) Phthalate 2/	+	===	-	
thyl Butanoic Acid	=	===		
enol 2/ tnyl Phenol	‡			
Alkvl Phenol (3 isomers) Alkvl Phenol		===		
netnyi Propanol		===	=	
thalic Acid	Ŧ	+ +		
nvi Senzene I/	†	==	=======================================	
cone ichlorotrifluoroethane thyl Ethyl Ketone =/	+ +	=======================================		
thyl Isobutyl Ketone 2/	+	+	APACT =	
nexanol nethyl-1-propanol	+	===		
rachioroethane	+	+		
exanol -dichloroethane	+	F		
vl chloride 1/	+	+		
ethyl disulfide hylene Chloride 2/	+	+	-	
metnyi Cyclonexanone hyl Benzene Methanol				
bonic Acid, Butyl Phenyl Ester boxy Butane n-butyl Phthalate 1/		===	=======================================	
coranthene 2/ sernyl Phenol (3 isomers)	=	· +		
anol Acid	<u> </u>	===	=======================================	
nthalene 2/	+	+		
phor 2/	+			
Alkvi Benzoic Acid nyl esters of Ethvi Hexanoic Acid	-			
zene Propanic Acid				
tanone ene hyl (methy ethanol) cyclohexanol		+==	====	
erpineol pinene-4-ol	<u> </u>	===	=======================================	
noline	<u>t</u>			
nyi Naphthalene naphthene 2/	<u>+</u>	+	====	
enzoturan a-napathonitrile				.
outyl Ester of Phosphoric Acid	<u>+</u>	= =		
nanthrene/Anthracene 2/ /I Methyl Benzene Sulfonamide	-	<u> </u>		
ene 2/ nvl Octanone exv Propanol				
Alkyl Styrene ayl (Propoxyloxy) Ethoxy Propanol		=	===	
yoxy Ethoxy Ethanol		===		
a methyl Pentanone		===		
ikyl Esher		-	===	
Ikvi Styrene		=		
vi Heatenone ethyl Pentandiol		===	=	
vi Pronoxy Propanol		==	=	
oxy Propoxy Propunol xy Propoxy Methane yl ester of Acetyl		==	=	
annic Acid thyl Ethyl Benzoic Acid		===	= = = :	•
none oxymetnylethoxy Propanol				
tvioxy Propanol varoingenone		=	=	
vl Propanoic Acid				
noic Acid	=	Ť		
l aiconol enzeoiuranone	-		=======================================	
oxyethyl benzene	====		=	
tetti hydrofuran ethyl phenyldihydroindene 10f 1154 and 1250 27				
1 benzi potnalate 1/	+	+		
nois Acid				
Manage Acid				
decanoic acid				
ecanoic acid				



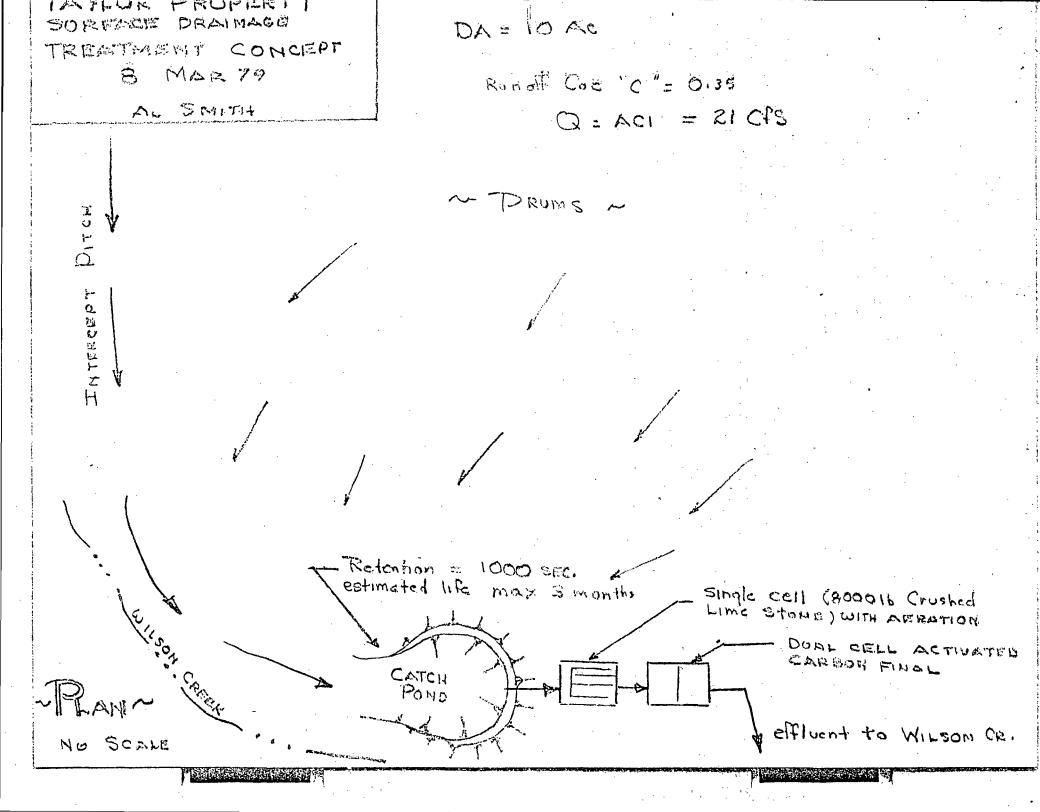


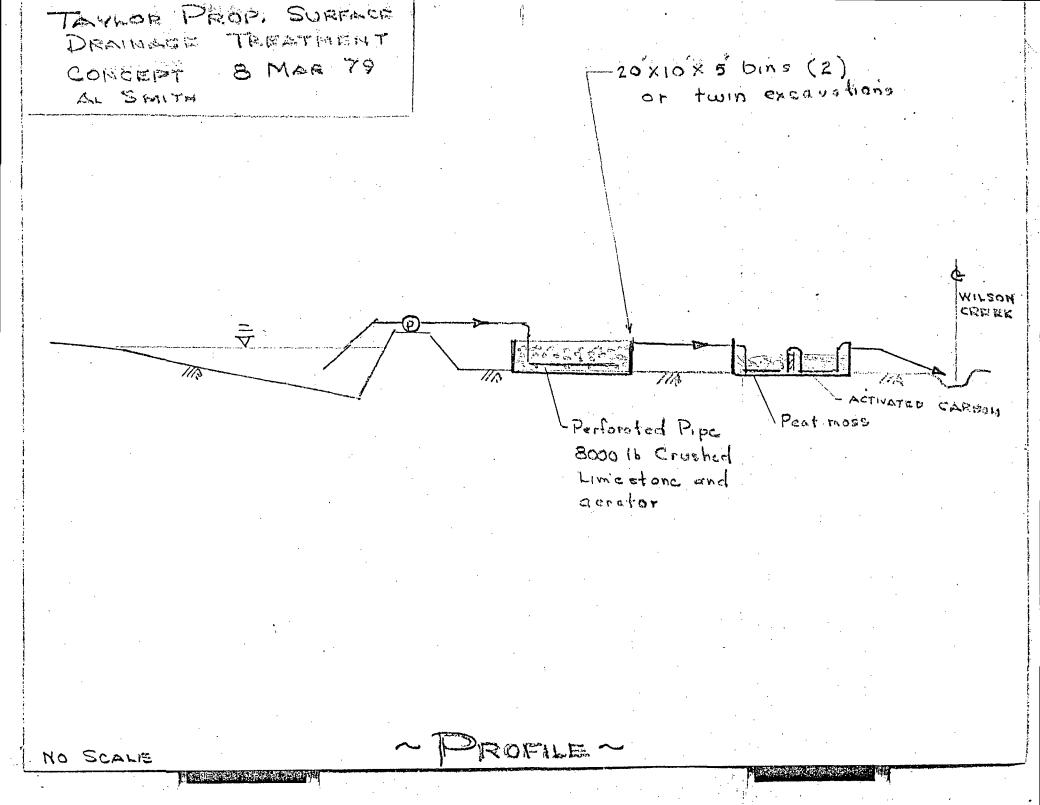






Hill # :11: Cornal. Ridge 1111 eater Powl





SAMPLE ANALYSIS

1.	Dil and grease-	coint source	- - 252ppm
/,2•	Oil and grease-	75' downstream	48opm
3.		tone	
4.	2-Butanol		21.Oppm
5.	Methyl Iso Buty	l Ketone	7.Oppm
X 6.	Benzene		- - .5ppm
7.	3-Methyl 2-Pent	anol	5.Oppm
. x 8.	Toluene		5.Oppm
9.	Methyl Iso Amyl	Ketone	1.Oppm
10.	Methyl Iso Amyl	Ketone(Cellosolve)	10.Oppm
11.	5-Methyl 2 Hexa	nol	
X 1.2.	Xylene (o & p)-		5-10ppm
<u>Meta</u>	<u>ls</u>		
.Sampi	le 1- - -Cadmium	O.028ppm	
	Chromium	0.048	
	Mercury	none	
	Lead	0.99	
-Sampi	le 2Cadmium	none	
	Chromium	0.503	
	Mercury	nane	
	Lead	2.67	•

TABLE 1

COMPOUND ug/1	Mater Sed.	AT-2 Water Sed.	AT-3 Water Sed.	Water Sed.	AT-5 Water Sed.	Mater Sed.	AT-7 Water Sed.
Benzoic Acid Methyl Benzoic Acid C2 Alkyl Benzoic Acid C4 Alkyl Benzoic Acid			10-100 10-100	10-100 1-10 1-10	1-25 1-25 1-25	1-10 1-10 1-10 1-10	10-50 10-50 1-10 1-10
Methyl Benzene Sulfunamide		3•9 7	•	37	1-25		1-10
Unidentified Compounds 1-10 ug/1	-	7	18	16 1	24	20	
Unidentified Compounds 10-100 ug/1	1	6	11	11 330	13	_1	
Xylene (2 isomers)			260	120	470	62	380
Methyl Pentanol							37 42
Methyl Cyclopentanol Dimethyl Pentanone							42
Butoxyethanol							37 23
Methyl Hydroxy Pentanone			24	170 10-10	00 220	28	23 200
C ₂ Alkyl Benzene (3 isomers)			64	21	7.2	5 . 7	24
Cyclohexanone			• .		2.4		66
Dibutoxymethanol (2 isomers)			65	150	86	15	60
Methyl Styrene			48	10-10	. 00	ŕ	9
C ₅ Alkyl Benzene (5 isomers)			22	11	26		9 28 86
a, a, Dimethyl Benzene Methanol			5.6 4.7			19	86
C ₂ Alkyl Styrene			4.7				7.3
Methyl Benzene Methanol						3 -	7.3
Isophorone Phenoxy Methyl Oxirene				1-10		15	37 15
Phenyl Ether				Τ⊶Τ(,	1.4	2.7
Chlorophenoxy Propanol						⊥• +	2.7 18
Dimethyl Phtnalate				8.7	8.6	13	18 16 57 29 44
Phenoxy Propanediol				••,	3.0	-5	57
Tetra oxadodecane		220	6.6	20	7.2	2.7	29
Diethyl Phthalate	9.4	17	42	4.9	29	26	44
Methyl Propyl Ester of Benzoic			7.5		17		3.7 4.1
Acid			27			4.7	
Pentaoxapentadecane		320 45	3.8	4.9 120	36	7.4	37
Bis (2-ethylhexyl) Phthalate	13	45					10÷50
Methyl Butanoic Acid							1-10

TABLE 1

COMPOUND ug/1	Mater Sed.	Mater Sed.	Mater Sed.	AT-4 Water Sed.	AT-5 Water Sed.	AT-6 Water Sed.	AT-7 Water Sed.
Benzoic Acid Methyl Benzoic Acid C2 Alkyl Benzoic Acid C4 Alkyl Benzoic Acid			10-100 10-100	10-100 1-10 1-10	1-25 1-25 1-25	1-10 1-10 1-10 1-10	10-50 10-50 1-10 1-10
Methyl Benzene Sulfunamide Unidentified Compounds 1-10 ug/l Unidentified Compounds 10-100 ug/l	1	3•9 7 6	18	37 16 1 11 330	1-25 24 13	20 1	1-10
Xylene (2 isomers) Methyl Pentanol Methyl Cyclopentanol Dimethyl Pentanone Butoxyethanol			260	120	470	62	380 37 42 37 23
Methyl Hydroxy Pentanone C ₂ Alkyl Benzene (3 isomers) Cyclohexanone			24 64	170 10-100 21	220 7.2 2.4	28 5•7	200 24 66
Dibutoxymethanol (2 isomers) Methyl Styrene C5 Alkyl Benzene (5 isomers)			65 48 22	150 10-100	86	15	60 9 28 86
a, a, Dimethyl Benzene Methanol C ₂ Alkyl Styrene Methyl Benzene Methanol			5.6 4.7			19	86 7.3 7.3
Isophorone Phenoxy Methyl Oxirene Phenyl Ether	·			1-10	·	15 1.4	
Chlorophenoxy Propanol Dimethyl Phtnalate Phenoxy Propanediol				8.7-	8.6	13	37 15 2.7 18 16 57 29 44
Tetra oxadodecane Diethyl Phthalate Methyl Propyl Ester of Benzoic	9.4	220 17	6.6 42 7.5	20 4.9	7.2 29 17	2.7 26	
Acid Pentaoxapentadecane Bis (2-ethylhexyl) Phthalate Methyl Butanoic Acid	13	320 45	27 3.8	4.9 120	36	4.7 7.4	3.7 4.1 37 10-50 1-10

TABLE 1

COMPOUND ug/1	AT-1 Water Sed.	AT-2 Water Sed.	AT-3 Water Sed.	Mater Sed.	AT-5 Water Sed.	Mater Sed.	AT-7 Water Sed.
Benzoic Acid Methyl Benzoic Acid C2 Alkyl Benzoic Acid C4 Alkyl Benzoic Acid			10-100 10-100	10-100 1-10 1-10	1-25 1-25 1-25	1-10 1-10 1-10 1-10	10-50 10-50 1-10 1-10
Methyl Benzene Sulfunamide		3.9	•	37	1-25		1-10
Unidentified Compounds 1-10 $ug/1$		7	18	16 1	24	20	
Unidentified Compounds 10-100 ug/1	1	6	11	11 330	ຸ 13	1	_
Xylene (2 isomers)			260	120	470	62	380
Methyl Pentanol	•						37
Methyl Cyclopentanol							42
Dimethyl Pentanone							37 23
Butoxyethanol			ol.	350 30 30		*0	23
Methyl Hydroxy Pentanone			24 64	170 10-100		28	200
C ₂ Alkyl Benzene (3 isomers) Cyclohexanone			04	21	7.2	5.7	24 66 ·
Dibutoxymethanol (2 isomers)			65	150	2.4 86		60
Methyl Styrene			65 48	10-100		15	00
C5 Alkyl Benzene (5 isomers)			22	11	26		9 28 86
a, a, Dimethyl Benzene Methanol			5.6			19	86
Co Alkyl Styrene			5.6 4.7			-/	7.3
Methyl Benzene Methanol							7.3
Isophorone						15	37
Phenoxy Methyl Oxirene				1-10		•	15
Phenyl Ether						1.4	2.7
Chlorophenoxy Propanol							18
Dimethyl Phtnalate				8.7	8.6	13	16
Phenoxy Propanediol							57
Tetra oxadodecane		220	6.6	20	7.2	2.7	18 16 57 29 44
Diethyl Phthalate	9.4	17	42	4.9	29	26	44
Methyl Propyl Ester of Benzoic			7.5		17		3.7 4.1
Acid			27		- 1	4.7	4.1
Pentaoxapentadecane	10	320 45	3.8	4.9 120	3 6	7.4	37
Bis (2-ethylhexyl) Phthalate	13	45					10-50
Methyl Butanoic Acid							1-10

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TABLE 1

COMPOUND ug/1	AT-1 Water Sed.	AT-2 Water Sed.	Water Sed.	AT-4 Water Sed	AT-5 Water Sed.	$\frac{\text{AT-6}}{\text{Water}}$ Sed.	AT-7 Water Sed.
Benzoic Acid Methyl Benzoic Acid C ₂ Alkyl Benzoic Acid C ₄ Alkyl Benzoic Acid		2.0	10-100 10-100	10-100 1-10 1-10	1-25 1-25 1-25	1-10 1-10 1-10 1-10	10-50 10-50 1-10 1-10
Methyl Benzene Sulfunamide Unidentified Compounds 1-10 ug/l		3 . 9 7	18	37 16 1	1 - 25 24	20	1-10
Unidentified Compounds 10-100 ug/1 Xylene (2 isomers) Methyl Pentanol Methyl Cyclopentanol Dimethyl Pentanone Butoxyethanol	1	6	11 260	11 330 120	13 470	1 62	380 37 42 37 23
Methyl Hydroxy Pentanone C2 Alkyl Benzene (3 isomers)			24 64	170 10-1 21	7.2	28 5•7	200 24
Cyclohexanone Dibutoxymethanol (2 isomers) Methyl Styrene			65 48 22	150 10-1	2.4 86 LOO	15	66 60 9
C ₅ Alkyl Benzene (5 isomers) a, a, Dimethyl Benzene Methanol C ₂ Alkyl Styrene Methyl Benzene Methanol			22 5.6 4.7	11	26	19	9 28 86 7.3 7.3
Isophorone Phenoxy Methyl Oxirene				1-1	10	15	37
Phenyl Ether Chlorophenoxy Propanol				4		1.4	2.7 18
Dimethyl Phtnalate Phenoxy Propanediol				8.7	8.6	13	16 57
Tetra oxadodecane Diethyl Phthalate Methyl Propyl Ester of Benzoic Acid	9.4	220 17	6.6 42 7.5 27	20 4.9	7•2 29 17	2.7 26 4.7	37 15 2.7 18 16 57 29 44 3.7 4.1
Pentaoxapentadecane Bis (2-ethylhexyl) Phthalate Methyl Butanoic Acid	13	320 45	3.8	4.9 120	36	7.4	37 10-50 1-10

PAGE 2

COMPOUND ug/1	AT-1 Water Sed.	AT-2 Water Sed.	AT-3 Water Sed.	AT-4 Water Sed.	AT-5 Water Sed.	AT-6 Water Sed.	AT-7 Water Sed.
Pentanoic Acid Phenol Methyl Phenol C2 Alkyl Phenol C4 Alkyl Phenol Ethyl Hexanoic Acid Dimethyl Propanol Phthalic Acid trans-1,2-dichloroethylene Toluene Ethyl Benzene Acetone Trichlorotrifluoroethane Methyl Ethyl Ketone Hexane Methyl Isobutyl Ketone 2-Hexanol 2-methyl-1-propanol Tetrachloroethane	T<5 T<.025	T < 5	1-10 96 75 T < .025 340 .29 69 0.6 6.0 330	T < 1 1-10 42 10-100 1-10 8 26 160 10 880 78 T < 5 5.7	T <1 1-25 1-25 1-25 1-25 10-100 1-25 36 180 24 400 410 1100 9.6 T 5 0.2	T < 1 1-10 100 10-100 380 100 T < 5	44 10-50 1-10 1-10 10-50 10-50 10-50 1-10 6.4 160 31 730 5.4 690 2.3 1600 37 5.2
1-butanol 1-hexanol 1, 1-dichloroethane			Τ ∢ 5	T < 5	T < 5 T < 5 T < 5		T < 5 T < 5
Vinyl Chloride Dimethyl disulfide Methylene Chloride Tri methyl Cyclohexanone Methyl Benzene Methanol Carbonic Acid	6.6	7.9	6 5•3 32	T < 5	9.4	7.4 15 1.2 3.5	T < 5
Propoxx Butane Di-n-butyl Phthalate Fluoranthene Dimethyl Phenol Hexanol Acid	39	7.5	38 5.6 1-10	10 4.9	9 . 6 7 . 2	1.2 16 T <1 1-10 12	
Hydroxy Methoxy Benzene Pentachlorophenol Naphthalene 1, 1, -trichloroethane Camphor			1-10 1.9 11	T < 1	1-25 4.5 9.4 230	1-10 4.3	

COMPOUND ug/1	AT-1 Water Sed.	AT-2 Water Sed.	AT-3 Water Sed.	Mater Sed.	AT-5 Water Sed.	AT-6 Water Sed.	AT-7 Water Sed.
Pentanoic Acid Phenol Methyl Phenol C2 Alkyl Phenol C4 Alkyl Phenol Ethyl Hexanoic Acid Dimethyl Propanol			1-10 96	T<1 1-10 9.5 1-10 42 10-100 1-10 8	T <1 1-25 1-25 1-25 10-100 1-25	T < 1 1-10 100 10-100 380 100	44 10-50 1-10 1-10 10-50 10-50 1-10
Phthalic Acid trans-1,2-dichloroethylene Toluene Ethyl Benzene Acetone Trichlorotrifluoroethane	T<5 T<.025	T < 5	75 T < . 025 340 .29 69 .0.6 6.0	26 160 10	36 180 24 400	T < 5	6.4 160 31 730 5.4
Methyl Ethyl Ketone Hexane Methyl Isobutyl Ketone 2-Hexanol 2-methyl-1-propanol	6.4	18	330	880 78 T < 5 5•7	410 1100 9.6 T 5 0.2	T < 5 6.2	690 2.3 1600 37 5.2
Tetrachloroethane 1-butanol 1-hexanol 1, 1-dichloroethane Vinyl Chloride	6.4	10	T < 5	T < 5	T < 5 T < 5 T < 5	0.2	T < 5 T < 5 T < 5
Dimethyl disulfide Methylene Chloride Tri methyl Cyclohexanone Methyl Benzene Methanol Carbonic Acid	6.6	7•9	5•3 32 38	14)	9.4	7.4 15 1.2 3.5 1.2	
Propoxx Butane Di-n-butyl Phthalate Fluoranthene Dimethyl Phenol Hexanol Acid	39	7.5	5.6 1-10 1-10	10 4.9	9.6 7.2 1-25	16.2 T < 1 1-10 12 1-10	
Hydroxy Methoxy Benzene Pentachlorophenol Naphthalene 1, 1, -trichloroethane Camphor			1.9 11	T < 1	4.5 9.4 230	4.3	· :

COMPOUND ug/1	Mater Sed.	AT-2 Water Sed.	AT-3 Water Sed.	Mater Sed.	AT-5 Water Sed.	AT-6 Water Sed.	Mater Sed.
Pentanoic Acid Phenol Methyl Phenol C2 Alkyl Phenol C4 Alkyl Phenol Ethyl Hexanoic Acid Dimethyl Propanol			1-10 96	T<1 1-10 9.5 1-10	T < 1 1-25 1-25 1-25 10-100	T < 1 1-10 100 10-100 380	կկ 10-50 1-10 1-10 10-50
Phthalic Acid trans-1,2-dichloroethylene Toluene Ethyl Benzene Acetone Trichlorotrifluoroethane	T<5 T<.025	T < 5	75 T < .025 340 .29 69 0.6 6.0	1-10 8 26 160 10	1-25 36 180 24 400	100 T < 5	1-10 6.4 160 31 730 5.4
Methyl Ethyl Ketone Hexane Methyl Isobutyl Ketone 2-Hexanol 2-methyl-1-propanol			330	880 78 T < 5	410 1100 9.6 T 5	T < 5	690 2.3 1600 37 5.2
Tetrachloroethane 1-butanol 1-hexanol 1, 1-dichloroethane Vinyl Chloride	6.4	18	12 T < 5	5•7 T < 5	0.2 T < 5 T < 5 T < 5	6.2	T < 5
Dimethyl disulfide Methylene Chloride Tri methyl Cyclohexanone Methyl Benzene Methanol Carbonic Acid	6.6	7•9	6 5•3 32	T < 5	9.4	7.4 15 1.2 3.5	T₹ 5
Propoxx Butane Di-n-butyl Phthalate Fluoranthene Dimethyl Phenol Hexanol Acid	39	7 . 5	38 5.6 1-10	10 4.9	9.6 7.2	1.2 16 T <1 1-10 12	t. 1.
Hydroxy Methoxy Benzene Pentachlorophenol Naphthalene 1, 1, -trichloroethane Camphor			1-10	T < 1	1-25 4.5 9.4 230	1-10 4.3	4.

COMPOUND ug/1	AT-1 Water Sed.	AT-2 Water Sed.	AT-3 Water Sed.	AT-4 Water Sed.	AT-5 Water Sed.	AT-6 Water Sed.	AT-7 Water Sed.
Pentanoic Acid Phenol Methyl Phenol C2 Alkyl Phenol C4 Alkyl Phenol Ethyl Hexanoic Acid Dimethyl Propanol			1-10 %	T < 1 1-10 42 10-100 1-10 8	T <1 1-25 1-25 1-25 10-100 1-25	T < 1 1-10 100 10-100 380 100	44 10-50 1-10 1-10 10-50 10-50 1-10
Phthalic Acid trans-1,2-dichloroethylene Toluene Ethyl Benzene Acetone Trichlorotrifluoroethane	T < 5 T < .025	T < 5	75 T < . 025 340 .29 69 0.6 6.0	26 160 10	36 180 24 400	T < 5	6.4 160 31 730 5.4
Methyl Ethyl Ketone Hexane Methyl Isobutyl Ketone 2-Hexanol			330	880 78 T < 5	410 1100 9.6 T 5	T < 5	690 2.3 1600 37 5.2
2-methyl-1-propanol Tetrachloroethane 1-butanol 1-hexanol 1, 1-dichloroethane	6.4	18	12 T < 5	5.7 T < 5	0.2 T<5 T<5	6,2	T < 5
Vinyl Chloride Dimethyl disulfide Methylene Chloride Tri methyl Cyclohexanone Methyl Benzene Methanol	6.6	7•9	6 5.3 32	T < 5	9.4	7.4 15 1.2 3.5	T < 5
Carbonic Acid Propoxx Butane Di-n-butyl Phthalate Fluoranthene Dimethyl Phenol Hexanol Acid	39	7.5	38 5.6 1-10	10 4.9	9.6 7.2	1.2 16 T < 1 1-10	
Hydroxy Methoxy Benzene Pentachlorophenol Naphthalene 1, 1, -trichloroethane Camphor			1-10 1.9 11	T<1.	1-25 4.5 9.4 230	1-10 4.3	

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COMPOUND ug/l	AT-1 Water Sed.	AT-2 Water Sed.	AT-3 Water Se	ed. Water	NT-4 Sed.	AT-5 Water Sed.	AT-6 Water Sed.	AT-7 Water Sed.
C ₃ Alkyl Benzoic Acid		•	1.	.10 1-10)	1-25		
Methylesters of Ethyl Hexanoic Acid			_	10 110		1 - 25		
Benzene Propanic Acid						1-25		
Heptanol						14		
Heptanone						220		
Incene						2.4		
Methyl (methylethanol) cyclohexanol						62		
a-Terpineol						400		
Terpinene						110		
Isophorone			49	20		19		
Quinoline						9.6		
Methyl Naphthalene					1-10	9.6		
Acenaphthene						12 4.8		
Dipenzofuran						4.8		
Beta-Naphthonitrile						4.8		
Fluorene						72		
Tributyl Ester of Phosphoric Acid						7.2		
Phenanthrene/Anthracene					1-10	5.7		
Butyl Methyl Benzene Sulfonamide						17		
Pyrene Methyl Octanone						2.2 2.2		
Butoxy Propanol				3.5		£•£		
C2 Alkyl Styrene			4.7	6.2				
Methyl (Propoxyloxy) Ethoxy Propanol			24	110				
Butyoxy Ethoxy Ethanol				12				
Dimethyl Phenol				11				
Tetra methyl Pentanone				1-10				
Dibutyl Ether			5.6	0.2				
C ₅ Alkyl Benzene			1.4	· -				
C3 Alkyl Phenol			11		1-10			
Alkyl Styrene			2.5		1-10			
Methyl Heptenone		4.5						

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COMPOUND ug/l	Mater Sed.	AT-2 Water Sed.	AT-3 Water Sed.	Mater Sed.	AT-5 Water Sed.	AT-6 Water Sed.	AT-7 Water Sed.
C3 Alkyl Benzoic Acid			1-10	1-10	1-25		
Methylesters of Ethyl Hexanoic Acid					1-25		
Benzene Propanic Acid					1-25		
Heptanol					14		
Heptanone					220		
Incene					2.4		
Methyl (methylethanol) cyclohexanol					62		
a-Terpineol					400		
Terpinene			¥1		110		
Isophorone			49	20	19		
Quinoline					9.6		
Methyl Naphthalene				1-10	9.6		
Acenaphthene					12 4.8		
Dipenzofuran					4.8		
Beta-Naphthonitrile					4.8		
Fluorene					72		
Tributyl Ester of Phosphoric Acid					7.2		
Phenanthrene/Anthracene				1-10	5.7		
Butyl Methyl Benzene Sulfonamide Pyrene					17		
Methyl Octanone					2.2		
Butoxy Propanol				3.5	2.2		
C2 Alkyl Styrene			4.7	3.5 6.2			
Methyl (Propoxyloxy) Ethoxy Propanol			24	110			
Butyoxy Ethoxy Ethanol				12			
Dimethyl Phenol				11			
Tetra methyl Pentanone				1-10			
Dibutyl Ether			5.6	0.2			
C ₅ Alkyl Benzene			1.4				
C3 Alkyl Phenol			11	1-10			
Alkyl Styrene			2.5	1-10			
Methyl Heptenone		4.5					

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	AT-1	AT-2	AT-3	AT-4	AT-5	AT-6	AT-7
COMPOUND ug/1	Water Sed.						
C3 Alkyl Benzoic Acid			1-10	1-10	1-25		
Methylesters of Ethyl Hexanoic Acid				9	1-25		
Benzene Propanic Acid					1-25		
Heptanol					14		
Heptanone					220		
Incene					2.4		
Methyl (methylethanol) cyclohexanol					62		
a-Terpineol					400		
Terpinene			1.0	12.2	110		
Isophorone			49	20	19		
Quinoline				1 10	9.6		
Methyl Naphthalene				1-10	9.6		
Acenaphthene Dipenzofuran					12 4.8		
Beta-Naphthonitrile					4.8		
Fluorene					72		
Tributyl Ester of Phosphoric Acid					7.2		
Phenanthrene/Anthracene				1-10	5.7		
Butyl Methyl Benzene Sulfonamide				1-10	17		
Pyrene					2.2		
Methyl Octanone					2.2		
Butoxy Propanol				3.5 6.2			
C2 Alkyl Styrene			4.7	6.2			
Methyl (Propoxyloxy) Ethoxy Propanol			24	110			
Butyoxy Ethoxy Ethanol				12			
Dimethyl Phenol				11			
Tetra methyl Pentanone				1-10			
Dibutyl Ether			5.6	0.2			
C ₅ Alkyl Benzene			1.4				
C3 Alkyl Phenol			11	1-10			
AIkyl Styrene		1	2.5	1-10			
Methyl Heptenone		4.5					

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COMPOUND ug/l	Water Sed.	AT-2 Water Sed.	Mater Sed.	Mater Sed.	Mater Sed.	Mater Sed.	Mater Sed.
C3 Alkyl Benzoic Acid Methylesters of Ethyl Hexanoic Acid Benzene Propanic Acid Heptanol Heptanone Incene			1-10	1-10	1-25 1-25 1-25 14 220 2.4		
Methyl (methylethanol) cyclohexanol a-Terpineol Terpinene					62 400 110		
Isophorone Quinoline			49	20	19 9.6		
Methyl Naphthalene Acenaphthene Dipenzofuran Beta-Naphthonitrile				1-10	9.6 12 4.8 4.8		
Fluorene Tributyl Ester of Phosphoric Acid Phenanthrene/Anthracene Butyl Methyl Benzene Sulfonamide				1-10	72 7.2 5.7 17		
Pyrene Methyl Octanone Butoxy Propanol				3.5	2.2		
C2 Alkyl Styrene Methyl (Propoxyloxy) Ethoxy Propanol Butyoxy Ethoxy Ethanol			4.7 24	3.5 6.2 110 12			
Dimethyl Phenol Tetra methyl Pentanone Dibutyl Ether C ₅ Alkyl Benzene			5.6 1.4	11 1-10 0.2			
C ₃ Alkyl Phenol Alkyl Styrene Methyl Heptenone		4.5	2.5	1-10 1-10			